

Unit 28: Group Project (Pearson-set)

Level:	5
Credits:	15
Ofqual Code:	H/618/8105

Introduction

While working in a team is an important skill in construction projects, collaboration goes beyond just teamwork. The success of a project relies not only on the ability of each person in a team to do their work but also on each individual's awareness of how their work relates to the work of others, how to ensure that information is shared effectively and that roles and responsibilities are clear.

Through this collaborative project-based unit, students will explore how to define roles in a collaborative team, recognising the skills (and 'skills gaps') of each member of the group. Together, students will work to develop a construction project based on their research and analysis, in response to the Pearson-set 'theme'.

Content in this unit will typically include role identification and allocation, collaborative structures, human resources management, project management, procurement, tender documentation, information/data sharing, meetings, health and safety, project costing and Building Information Modelling (BIM).

****Please refer to the accompanying Pearson-set Assignment Guide and the Theme Release document for further support and guidance on the delivery of the Pearson-set unit.***

Learning Outcomes

By the end of this unit, students will be able to:

- LO1 Assess individual and group skills to allocate roles within a collaborative team
- LO2 Plan a construction project, based on the Pearson-set theme, in collaboration with others to ensure good practice in resource management, staffing and project scheduling
- LO3 Prepare tender documentation, undertaking work appropriate to a defined role within a team
- LO4 Evaluate own work, and the work of others, in a collaborative team.

Essential Content

LO1 **Assess individual and group skills to allocate roles within a collaborative team**

Roles and responsibilities

Skills auditing

Evaluating personality and teams (e.g., Belbin Team Inventory, Myers Briggs Personality Type Indicator)

Human resources management

Core job dimensions (e.g., skill variety, task identity, task significance, autonomy, feedback)

Job design (e.g., job rotation, job enlargement, etc.).

LO2 **Plan a construction project, based on the Pearson-set theme, in collaboration with others to ensure good practice in resource management, staffing and project scheduling**

Project planning

Client requirements

Setting goals

Defining 'deliverables'

Task definition

Identifying risks/risk management

Communications planning

Resource management

Human resources

Physical resources

Supply chain

Waste management

Project scheduling

Scheduling tools

Milestones

Blocks

LO3 Prepare tender documentation, undertaking work appropriate to a defined role within a team

Tender documentation

Construction drawings

Specifications

Schedules of work

Cost plan

Health and safety legislation

Building Information Modelling (BIM)

LO4 Evaluate own work, and the work of others, in a collaborative team

Reflective practice

Schön's 'The Reflective Practitioner'

Gibbs' 'Reflective Cycle'

Reflection vs description

Reflection in practice

Project lifecycle

Post-implementation review

Learning Outcomes and Assessment Criteria

Pass	Merit	Distinction
LO1 Assess individual and group skills to allocate roles within a collaborative team		D1 Justify the allocation of roles and responsibilities within a team, recognising individual skills and ambitions vs project requirements.
P1 Evaluate own skills and the skills of others through skills auditing and review. P2 Develop role descriptions and responsibilities within a team.	M1 Discuss the allocation of roles within a collaborative team to meet overall project needs.	
LO2 Plan a construction project, based on the Pearson-set theme, in collaboration with others to ensure good practice in resource management, staffing and project scheduling		D2 Critically evaluate the relationships between project planning and tender documentation, highlighting ways in which tender information responds to project planning.
P3 Develop a project plan to ensure successful achievement of completed project. P4 Illustrate resource planning (both physical and human) as well as time planning.	M2 Interpret events and activities in a project plan to indicate milestones and risks.	
LO3 Prepare tender documentation, undertaking work appropriate to a defined role within a team		
P5 Develop construction drawings and specifications. P6 Prepare a cost plan. P7 Produce a pre-construction health and safety method statement.	M3 Evaluate the ways in which Building Information Modelling (BIM) can provide greater efficiency in collaborative preparation of tender documentation.	
LO4 Evaluate own work, and the work of others, in a collaborative team		D3 Critically evaluate the success of a project by considering individual and group working practices in relation to assigned roles and personality profiles.
P8 Undertake a continual review of own work, recording it throughout the project. P9 Review own working practices in relation to that of other members of the team, identifying areas of good practice.	M4 Evaluate own personality profile in relation to own working practices.	

Recommended Resources

Print resources

BALDWIN, A., BORDOLI, D. (2014), *Handbook for Construction Planning and Scheduling*, John Wiley & Sons

BELBIN, R. (2010), *Team Roles at Work*, Routledge

BENNETT, J., PEACE, S. (2007), *Partnering in the Construction Industry*, Routledge

BOUCLAGHEM, D. (2012), *Collaborative Working in Construction*, Routledge

CIOB (THE CHARTERED INSTITUTE OF BUILDING) (2010), *Guide to Good Practice in the Management of Time in Complex Projects*, John Wiley & Sons

KELLY, J., MALE, S. (2003), *Value Management in Design and Construction*, Routledge

LOOSEMORE, M., DAINTY, A., LINGARD, H. (2003), *Human Resource Management in Construction Projects*, Routledge

MEIER, H., WYATT, D. (2008), *Construction Specifications*, Delmar Pub

POTTS, K., ANKRAH, N. (2014), *Construction Cost Management*, Routledge

Links

This unit links to the following related units:

- Unit 1: Construction Design Project (Pearson-set)
- Unit 4001CE: Construction Design Project Civil Engineering (Pearson-set)
- Unit 4: The Construction Environment
- Unit 5: Legal and Statutory Requirements in Construction
- Unit 11: Financial Management & Business Practices in Construction
- Unit 30: Project Management
- Unit 39: Personal Professional Development.